

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, C12N 5/10		A2	(11) International Publication Number: WO 99/55862 (43) International Publication Date: 4 November 1999 (04.11.99)
(21) International Application Number: PCT/JP99/02226 (22) International Filing Date: 27 April 1999 (27.04.99)		(81) Designated States: AU, CA, JP, MX, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(30) Priority Data: 10/119395 28 April 1998 (28.04.98) JP		Published <i>Without international search report and to be republished upon receipt of that report.</i>	
(71) Applicants (for all designated States except US): SAGAMI CHEMICAL RESEARCH CENTER [JP/JP]; 4-1, Nishi-Ohnuma 4-chome, Sagamihara-shi, Kanagawa 229-0012 (JP). PROTEGENE INC. [JP/JP]; 2-20-3, Naka-cho, Meguro-ku, Tokyo 153-0065 (JP).			
(72) Inventors; and (75) Inventors/Applicants (for US only): KATO, Seishi [JP/JP]; 3-46-50, Wakamatsu, Sagamihara-shi, Kanagawa 229-0014 (JP). KIMURA, Tomoko [JP/JP]; 302, 4-1-28, Nishiikuta, Tama-ku, Kawasaki-shi, Kanagawa 214-0037 (JP).			
(74) Agents: AOYAMA, Tamotsu et al.; Aoyama & Partners, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 540-0001 (JP).			
(54) Title: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs ENCODING THESE PROTEINS			
(57) Abstract			
<p>A protein comprising any of the amino acid sequences represented by Sequence Nos. 1 to 9, a DNA coding for said protein, exemplified by a cDNA comprising any of the base sequences represented by Sequence Nos. 10 to 18, and an expression vector of said cDNA as well as an eucaryotic cell expressing said cDNA. Said protein and eucaryotic cell having said protein on the membrane surface can be provided by expression of a cDNA coding for a human protein having a transmembrane domain and of a recombinant of the human cDNA.</p>			